

Town of LaGrange Sewer Connection Protocol

October, 2008

Prepared for:
Town of LaGrange
120 Stringham Road
LaGrangeville, New York 12540

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**TOWN OF LAGRANGE
REQUIREMENTS FOR
CONNECTION TO TOWN SEWER SYSTEMS,**

TOWN OF LAGRANGE
120 STRINGHAM ROAD
LAGRANGEVILLE, NEW YORK 12540

1.0 INTRODUCTION

The purpose of this document titled Requirements for Connection to Town Sewer Systems is to provide the requirements for connection to Town of LaGrange public sewer systems. Each proposed sewer user is required to submit an application to the Town for hook-up to a Town public sewer system. This document shall pertain only to those residential or commercial users installing a standard gravity sanitary sewer lateral. Any user needing a pump station or grease, oil or grit interceptor (see Section 4) shall be subject to Dutchess County Health Department (DCHD) review and approval.

The sewer connection program's description and requirements are presented in subsequent sections. Steps for application for sewer hook-up are described in Section 2.0. Definitions of key words are in Section 3.0. Requirements for determining the proposed sewer user's need for a grease, oil or grit interceptor are described in Section 4.0. Steps for receiving the Town's approval of sewer connection are described in Section 5.0.

2.0 APPLICATION FOR SEWER HOOK-UP

2.1 General

Each proposed sewer user is required to submit an application to the Town of LaGrange for hook-up to a Town public sewer system. Application shall be made to the Town Administrator of Public Works by submission of either the Application For Sewer Hook Up – Class 1 Residential or Class 2 Non-Residential (Appendix A.) If the Town of LaGrange evaluates the application

and determines the user shall install anything other than a standard gravity lateral, the user shall contact the DCHD.

2.4 Disconnection of Existing Individual Sewer Supply

All proposed sewer users shall be required to disconnect any existing individual septic systems from household and/or building plumbing. No interconnection between the Town's public sewer system and any other sewer supply is permitted by the Health Department.

2.5 Inspections

A permit for private sewage disposal systems shall not become effective until the installation is completed to the satisfaction of the Town Sewer System Operator. The Operator shall be allowed to inspect the work at any stage of construction, and the applicant for the permit shall notify the Operator before any underground portions are covered and when the work is ready for final inspection. The inspections shall be made within two (2) business days of the receipt of notice by the Operator.

2.6 Pipe Type for Service Sewer Service Lines

External house service piping is to be Polyvinyl Chloride (PVC) SDR 35 pipe. Minimum size is to be 4 inch.

3.0 DEFINITIONS FOR SEWER CONNECTION

The following definitions are used in sewer connection protocol:

- 3.1 **BUILDING DRAIN** — That part of the lowest horizontal piping of the drainage system which receives the discharge from soil, waste and other drainage pipe inside the walls of the building and conveys it to the building sewer beginning five feet outside the inner face of the building wall.
- 3.2 **BUILDING SEWER** — The extension from the building drain to the public sewer or to an existing extension from a public sewer when available.
- 3.3 **ENGINEER** — The Engineer of the Town of LaGrange.
- 3.4 **GARBAGE** — Solid wastes from the preparation, cooking and dispensing of food and from the handling, storage and sale of produce.

- 3.5 GREASE INTERCEPTOR/GREASE TRAP – The device that is utilized to separate grease and oils from wastewater before discharging into the collection system. Such traps or interceptors may be the underground type (exterior) or under the counter package units (internal).
- 3.6 INDUSTRIAL WASTES — The liquid wastes from industrial processes as distinct from sanitary sewage.
- 3.7 NORMAL SEWAGE — Sewage shall be regarded as normal for the Town if analyses show, by weight, a daily average of not more than 300 parts per million of suspended solids, not more than 240 parts per million of BOD and not more than 50 parts per million of either grease or oil (soluble matter) each per million gallons of daily flow.
- 3.8 OIL/WATER SEPARATOR – The device used to separate oil from wastewater before discharging into the collection system.
- 3.9 PROPERLY SHREDDED GARBAGE — Garbage that has been shredded to such degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than 1/2 inch in any dimension.
- 3.10 PUBLIC SEWER — A sewer in which all owners of abutting properties have equal rights and which is controlled by public authority.
- 3.11 GRIT INTERCEPTOR – A device used to separate sand, grit and other solids from wastewater before discharging into the collection system.
- 3.12 SANITARY SEWAGE — Sewage discharging from the sanitary conveniences of dwellings (including apartment houses and hotels), office buildings, factories or institutions and free from storm and surface waters and industrial wastes.
- 3.13 SEWAGE — A combination of water-carried wastes from residences, buildings, institutions and industrial establishments, together with such ground-, surface and storm waters as may be present.
- 3.14 SEWAGE TREATMENT PLANT — Any arrangement of devices and structures used for treating sewage.
- 3.15 SEWAGE WORKS or SEWERAGE SYSTEM — All facilities for collecting, pumping, treating and disposing of sewage.

- 3.16 SEWER — A pipe or conduit for carrying sewage and to which storm-, surface and ground waters are not intentionally admitted.
- 3.17 STORM SEWER or STORM DRAIN — A pipe or conduit which carries storm- and surface water and drainage, but excludes sewage and industrial wastes. It may, however, carry cooling water or other unpolluted waters.
- 3.18 TOWN — The Town of LaGrange, County of Dutchess, New York.
- 3.19 UNPOLLUTED WATER OR WASTE — Any water or waste containing none of the following: free or emulsified grease or oil; acid or alkali; phenols or other substances imparting taste or odor in receiving waters; toxic or poisonous substances in suspension, colloidal state or solution; and noxious or odorous gases. It shall contain not more than 10,000 parts per million by weight of dissolved solids, of which not more than 2,500 parts per million shall be as chloride with permissible volumes subject to review by the Engineer, and not more than 10 parts per million each of suspended solids and BOD. The color shall not exceed 50 parts per million.

4.0 DETERMINING IF GREASE, OIL OR GRIT INTERCEPTOR IS NEEDED

The Town of LaGrange Sewer Code states “Grease, oil and sand interceptors shall be provided when, in the opinion of the Engineer, they are necessary for the proper handling of liquid wastes containing grease in excessive amount or any flammable wastes, sand and other harmful ingredients, except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of the type and capacity approved by the Engineer and shall be so located as to be readily and easily accessible for cleaning and inspection. Grease and oil interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with removable covers which, when mounted in place, shall be gastight and watertight.”

- 4.1 The following partial listing gives examples of the types of facilities which would require an acceptable grease, oil or sand interceptor to be installed in the service connection to the public sewer distribution system:

Commercial/Industrial Facility discharging:

- a) kitchen or food preparation wastewater including restaurants, motels/hotels, cafeterias, hospitals, schools, bars, etc.
- b) motor oil, transmission fluid, lubricating oil, grease, hydraulic oil etc. including mechanical maintenance repair shops, car washes, and businesses where floor drains might collect these substances.

5.0 SUBMISSION AND APPROVAL FOR SEWER CONNECTION

A residential or commercial sewer user utilizing a standard gravity lateral shall install the lateral in accordance with the Town of LaGrange Standard Sewer Details and Notes (see Appendix B) and follow the steps below:

- 5.1 Submit 3 copies of the Application for Sewer Hook-up (Class 1 or 2) and Site Plan (see Appendix B- Typical Lateral Plan Detail) to the Town of LaGrange Administrator of Public Works.
- 5.2 The Town of LaGrange Administrator of Public Works will review applicant's submission.
- 5.3 If it is determined that the proposed connection will require a pump station or grease, oil, or grit separator the applicant will be referred to the Dutch County Department of Health. Documentation of DCHD approval will be required by the Town.
- 5.4 If acceptable, the application will be approved. If unacceptable, written comments will be returned to the applicant.
- 5.4 After the written approval has been issued, the customer may proceed with the installation. All work must be performed by Plumbers licensed in the State of New York. The sewer connection applicant is required to arrange for required inspections by Town Officials at the required stages as described in Section 2.5 above.

TABLE 1 – SCHEDULE OF FEES FOR SEWER CONNECTION APPLICATION

| DESCRIPTION | FEE |
|--|------------|
| Single family residential sewer connection. ⁽¹⁾⁽⁴⁾ | \$250 |
| “Non” single family residential sewer connection. ⁽¹⁾⁽⁴⁾ Town Engineer review when required. ⁽²⁾ | \$500 |
| Additional Wastewater System Operator Inspection and Town Engineer review when required for connection to Town sewer mains. ⁽¹⁾⁽²⁾⁽³⁾ | \$100 |

- 1) Includes review by Town Administrator of Public Works and inspection by Town Wastewater System Operator as a single event.
- 2) Fee for review by Town Engineer will be based on a lump sum proposal provided upon determination that a review by the Town Engineer is required. When more than one resubmission is required, additional Town Engineer review fees may apply and the applicant will be advised of these fees prior to completing the review.
- 3) Includes \$100 Town Wastewater System Operator inspection fee.
- 4) When multiple inspections are required, an additional inspection fee of \$50 per inspection event will be applied to the first water usage bill.

APPENDIX A

APPLICATION FOR SEWER CONNECTION

APPENDIX B

STANDARD SEWER CONNECTION DETAILS

GENERAL NOTES:

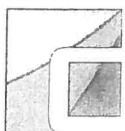
1. INSTALLATION OF INDIVIDUAL GRAVITY SANITARY SEWER LATERALS SHALL REQUIRE THAT A PERMIT BE OBTAINED FROM THE TOWN OF LAGRANGE ADMINISTRATOR OF PUBLIC WORKS.
2. THE APPLICANT SHALL BE REQUIRED TO MAKE ALL ARRANGEMENTS WITH THE TOWN OF LAGRANGE ADMINISTRATOR OF PUBLIC WORKS, INCLUDING SCHEDULING OF ALL SITE INSPECTIONS. ANY WORK PERFORMED WITHOUT PROPER INSPECTION WILL NEED TO BE REDONE IN THE PRESENCE OF THE TOWN INSPECTOR.
3. NO TRENCH SHALL BE BACKFILLED UNTIL SUCH TIME AS THE TOWN INSPECTOR HAS HAD ADEQUATE TIME TO INSPECT EACH PIPE JOINT.
4. THE APPLICANT SHALL BE RESPONSIBLE FOR CONTACTING THE UNDERGROUND FACILITIES PROTECTION ORGANIZATION AT 1-800-962-7962, FOR AN EXISTING UTILITY MARK OUT PRIOR TO THE START OF ANY EXCAVATION.
5. ALL SANITARY SEWER PIPING SHALL BE A MINIMUM 4" DIAMETER P.V.C. SDR-35 (ASTM D 3034).
6. ALL SANITARY SEWER LATERAL PIPING SHALL BE LAID AT A MINIMUM GRADE OF 2.0% (1/4" PER FOOT).
7. THE APPLICANTS SHALL BE RESPONSIBLE FOR INSTALLING CLEANOUTS ON THE SEWER LATERAL AT ALL BENDS, AND AT A MAXIMUM SPACING OF 75' ON ALL STRAIGHT RUNS UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE MAXIMUM PIPE BEND SHALL BE 45'. NO 90° BENDS SHALL BE PERMITTED.
8. THE APPLICANT SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE OSHA REGULATIONS FOR TRENCHES IN EXCESS OF 5' DEPTH. ALL DITCHES/TRENCHES SHALL BE ADEQUATELY DEWATERED PRIOR TO PIPE INSTALLATION.
9. IF UNSUITABLE AND/OR UNSTABLE SUBBASE CONDITIONS ARE ENCOUNTERED, ADDITIONAL CRUSHED STONE BEDDING MATERIAL IN EXCESS OF THE 6" MINIMUM SHALL BE PLACED PRIOR TO PIPE INSTALLATION.
10. THERE SHALL BE NO ROOF DRAINS, FOOTING DRAINS, SUMP PUMPS OR ANY OTHER EXTRANEIOUS SOURCE OF FLOW TIED INTO THE SANITARY SEWER LATERAL.
11. THE EXISTING SEPTIC TANK (IF ANY) SHALL BE PUMPED OUT, THE TOP AND BOTTOM BROKEN OUT, AND FILLED AND COMPACTED WITH CLEAN SAND OR STONE FILL IN ACCORDANCE WITH ALL APPLICABLE DUTCHESS COUNTY HEALTH DEPARTMENT CODES.
12. THE APPROPRIATE LATERAL CONNECTION TO THE EXISTING HOUSE SOIL LINE SHALL BE MADE APPROXIMATELY 5' FROM THE OUTSIDE EDGE OF THE HOUSE, WITH A "PROFLEX" SERIES 3000 COUPLING AS MANUFACTURED BY FERNCO, OR APPROVED EQUAL. USE CONCRETE AROUND THE FERNCO FOR SUPPORT. FOR NEW BUILDING CONSTRUCTION, A PIPE SLEEVE IS REQUIRED THROUGH THE FOUNDATION WALL FOR THE LATERAL.
13. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARD SANITARY SEWER DETAILS AND PRACTICES TO THE SATISFACTION OF THE TOWN ADMINISTRATOR OF PUBLIC WORKS, THE TOWN ENGINEER, THE SYSTEM OPERATORS, AND THE DUTCHESS COUNTY HEALTH DEPARTMENT.
14. ALL SEWER LATERALS SHALL HAVE 10' MINIMUM HORIZONTAL SEPARATION FROM EXISTING WATER LINES, WITH 18" MINIMUM VERTICAL SEPARATION AT ALL CROSSINGS. SEWER LATERALS SHALL BE 25' MINIMUM FROM SURROUNDING WELLS. SEWER LINES SHALL CROSS BENEATH WATER LINES WHEN POSSIBLE. IN EXTRAORDINARY CIRCUMSTANCES, SEWER AND WATER SERVICE LINES MAY BE CONSTRUCTED IN THE SAME TRENCH IF APPROVED IN ADVANCE BY THE TOWN AND CONSTRUCTED TO THE REQUIREMENTS OF THE N.Y.S. BUILDING AND PLUMBING CODES.
15. ALL HOUSEHOLD WASTEWATER SHALL BE DISCHARGED TO THE TOWN SEWER SYSTEM, INCLUDING SEEPAGE PITS/DRYWELLS, ETC. (I.E.: FOR WASHING MACHINES). ALL SUCH SEEPAGE PITS/DRYWELLS SHALL BE ABANDONED SIMILARLY TO THE SEPTIC TANK (I.E.: PUMPED AND FILLED). INTERNAL AND/OR EXTERNAL PIPING MODIFICATIONS MAY BE REQUIRED TO CONNECT THEM TO THE CENTRAL SEWER FACILITY.
16. ANY WORK WITHIN THE TOWN ROAD RIGHT-OF-WAY MUST BE SCHEDULED IN ADVANCE WITH THE TOWN HIGHWAY SUPERINTENDENT.
17. ANY WORK WITHIN THE STATE OR COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE APPROVED BY THE APPLICABLE AUTHORITY.

FIGURE 1

GENERAL NOTES

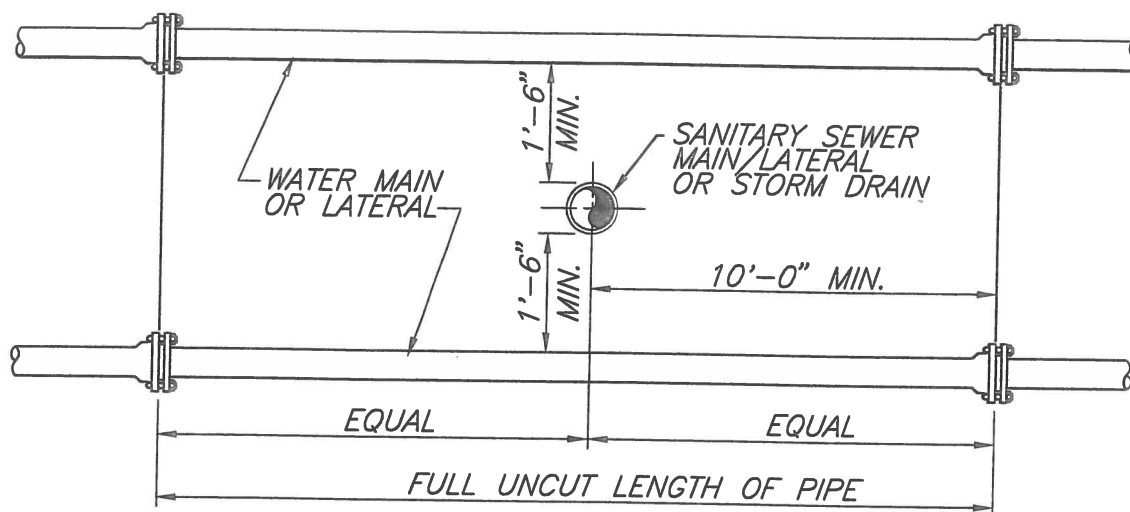
STANDARD SANITARY SEWER DETAILS

TOWN OF LAGRANGE, NEW YORK

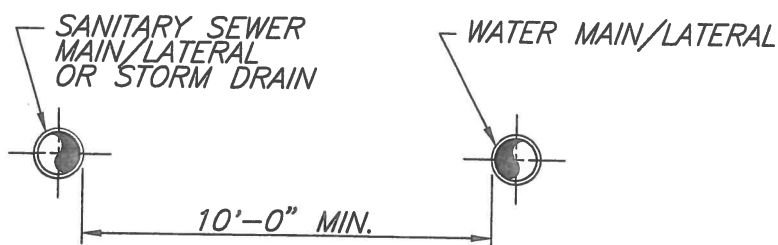


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SCALE: NO SCALE
PROJ. #:11278.34



VERTICAL SEPARATION



HORIZONTAL SEPARATION

NOTE : NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER.

WHEN SEPARATION DISTANCES CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR FURTHER INSTRUCTIONS AND DIRECTIVES.

SANITARY/STORM SEWER – WATER MAIN SEPARATION DETAIL

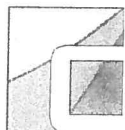
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FIGURE 2

TYPICAL SEPARATION

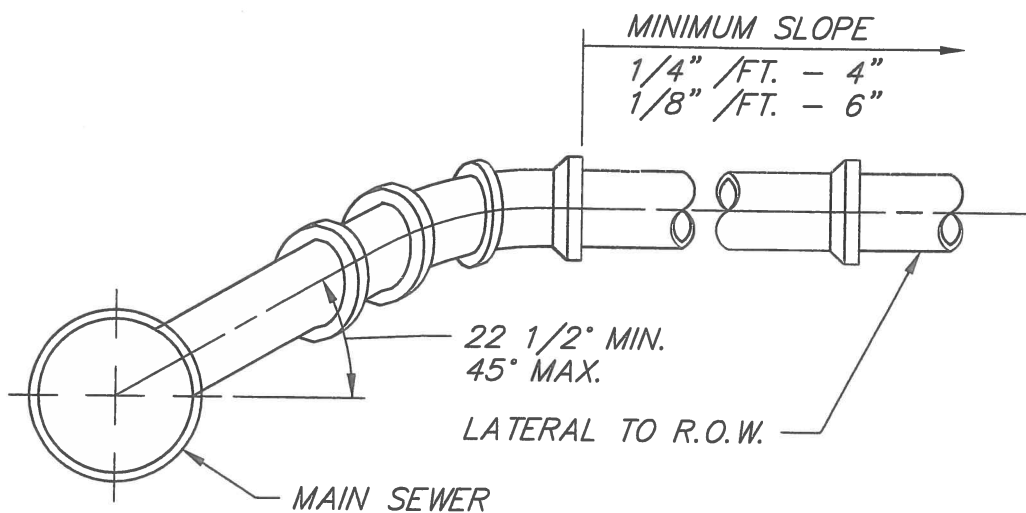
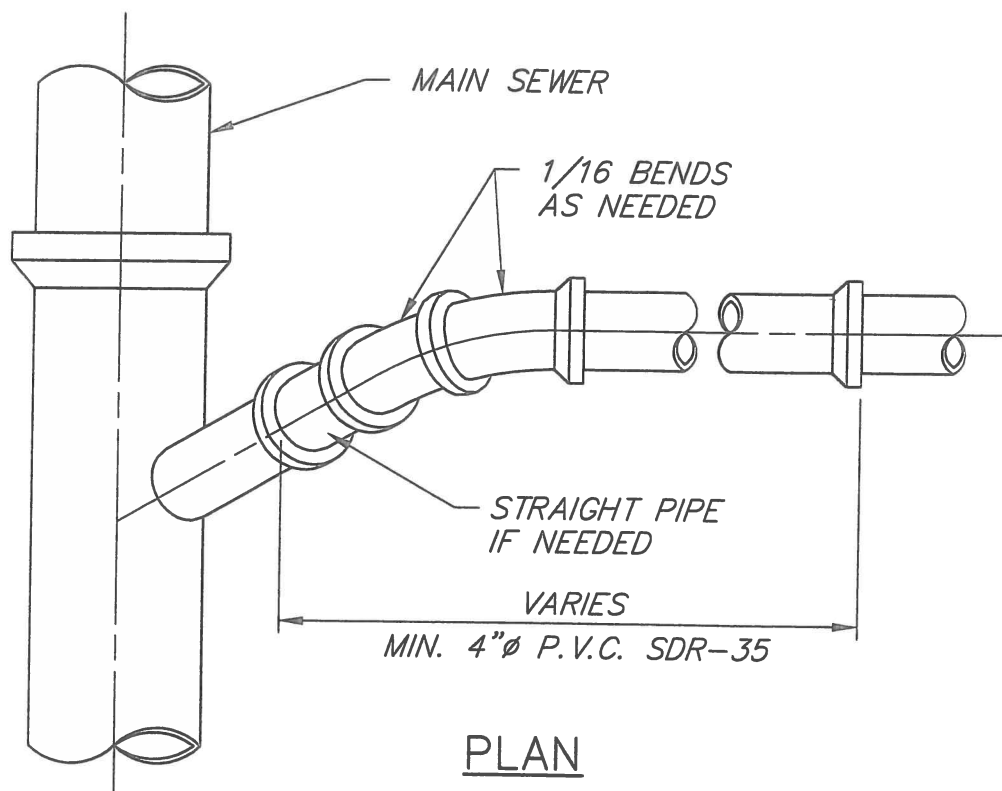
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SECTION

WYE BRANCH CONNECTION

N.T.S.

FIGURE 3

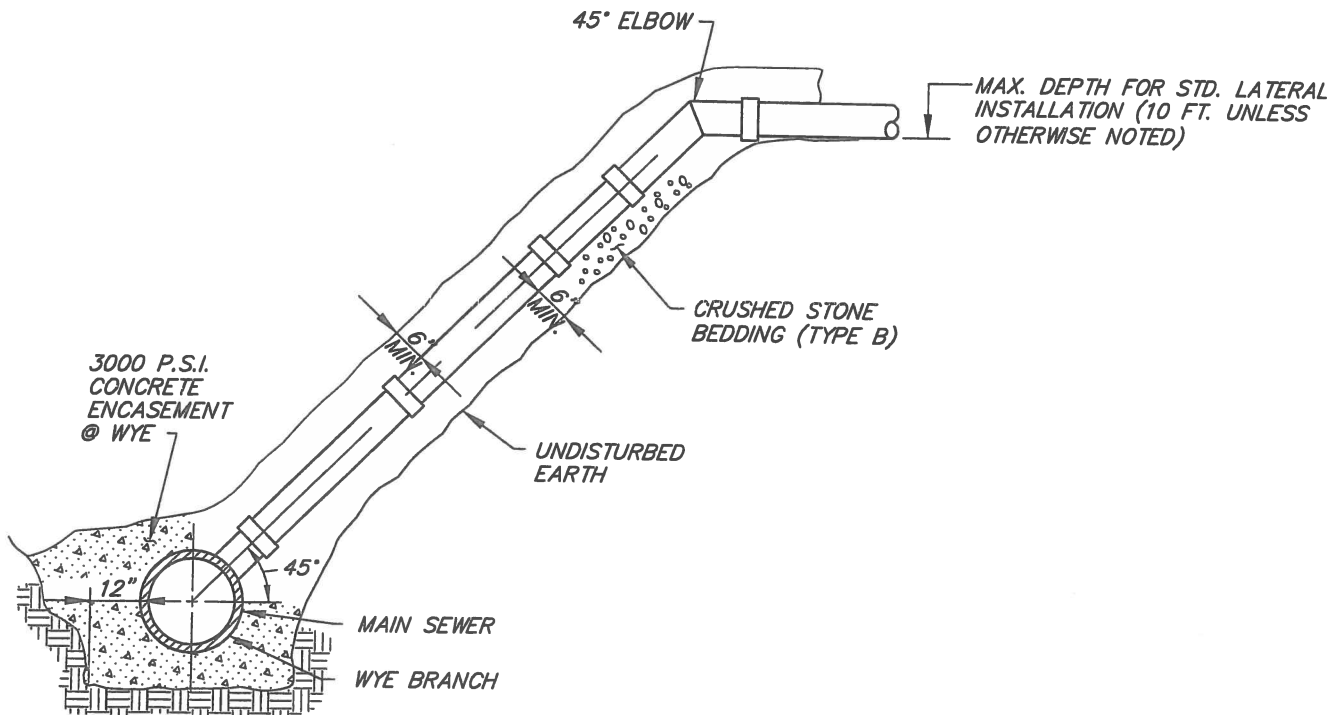
BRANCH CONNECTION

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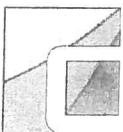
LATERAL RISER DETAIL
N.T.S.

FIGURE 4

RISER DETAIL

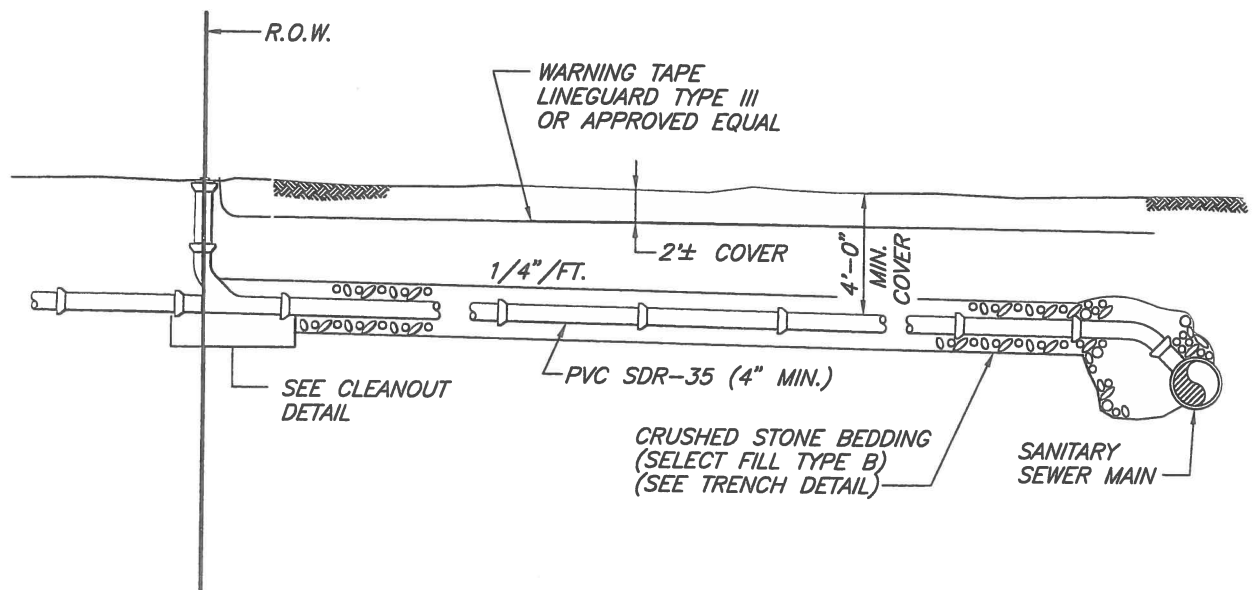
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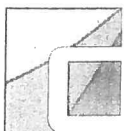
TYPICAL SANITARY SEWER LATERAL
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FIGURE 5

TYPICAL LATERAL

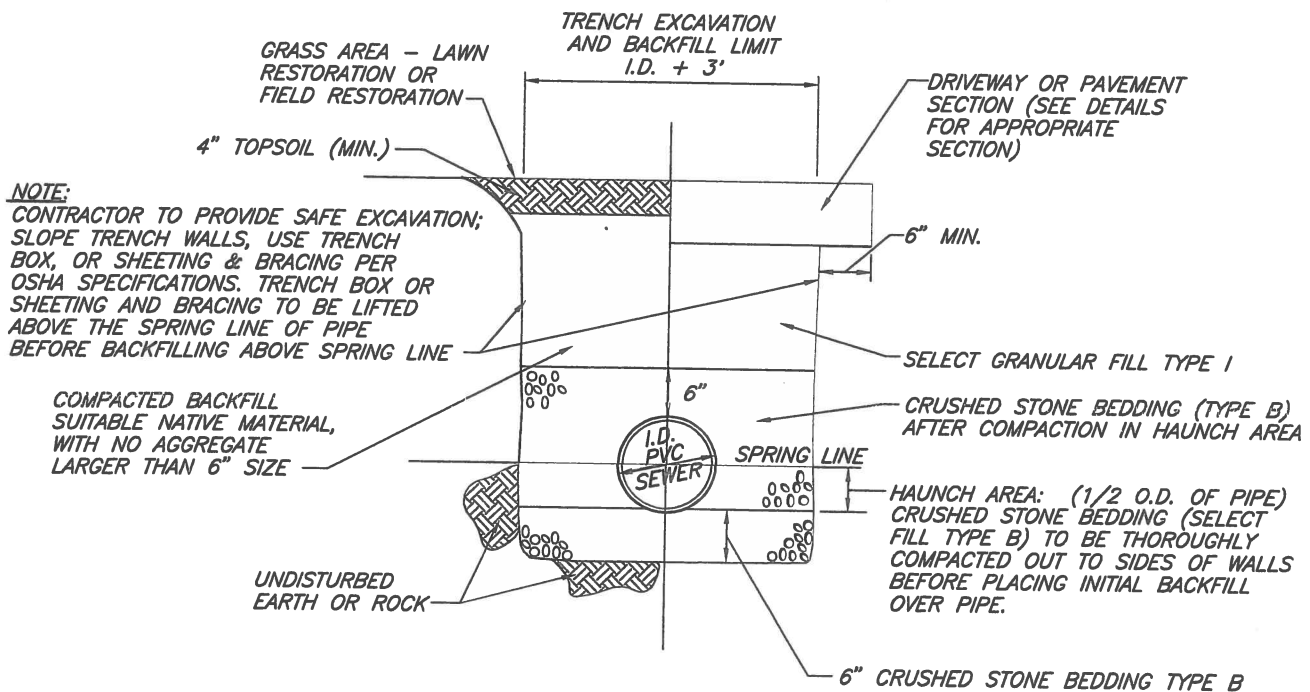
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SANITARY SEWER AND LATERAL TRENCH DETAIL

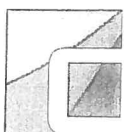
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FIGURE 6

LATERAL TRENCH

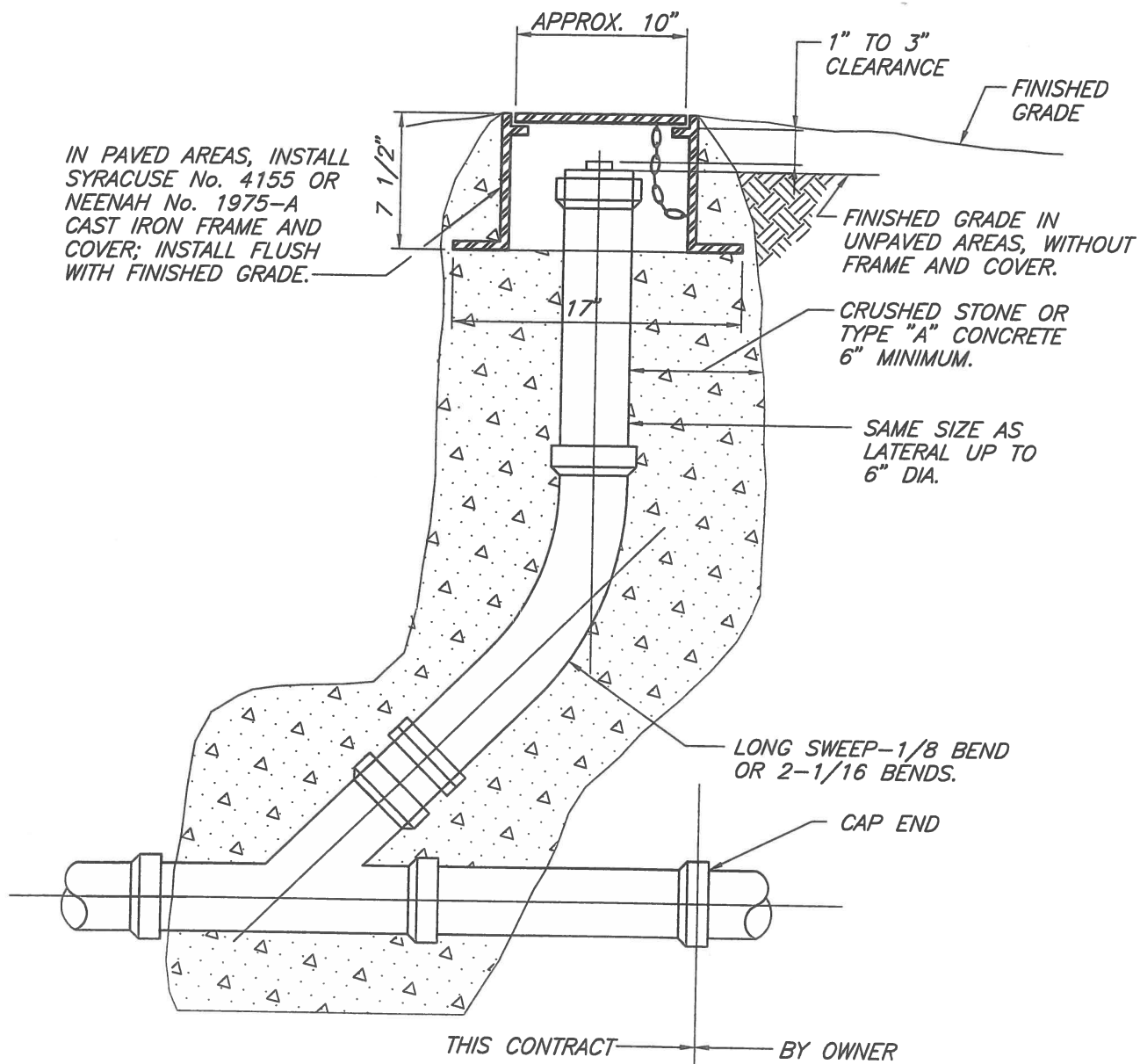
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TYPICAL SANITARY CLEAN-OUT

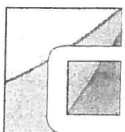
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FIGURE 7

CLEAN-OUT DETAIL

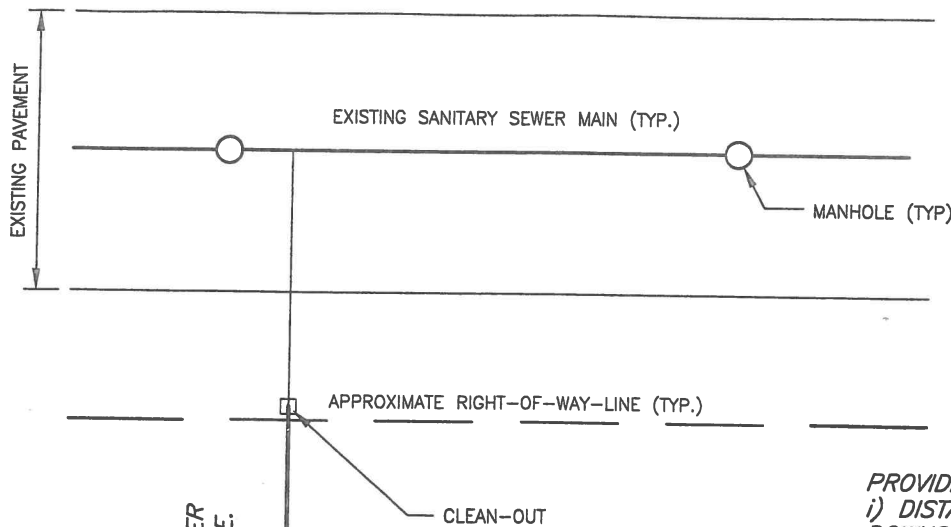
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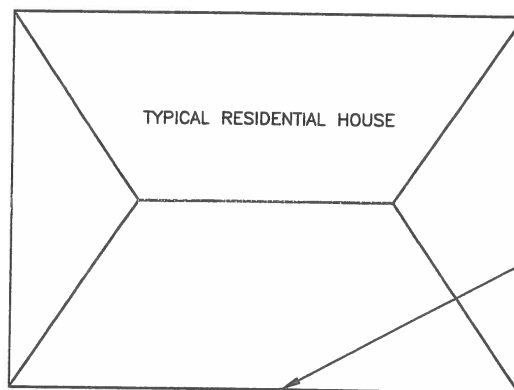
PROVIDE:

i) DISTANCE TO UP & DOWNSTREAM MANHOLES.

ii) INVERT ELEVATIONS AT HOUSE, CLEANOUTS, UP & DOWNSTREAM MANHOLES, AND CALCULATED ELEVATION AT TIE IN POINT.

iii) GROUND ELEVATIONS ALONG THE PROPOSED SEWER LATERAL PATH.

PROPOSED 4" Ø P.V.C. (SDR-35) SANITARY SEWER LATERAL (ASTM D 3034 AT 2.0% MINIMUM GRADE. 1/4" PER FOOT)



FOR NEW CONSTRUCTION: PIPE ENTRANCE THROUGH WALL SHALL BE CAST IRON OR SDR-35 PVC PIPE PER N.Y.S. BUILDING CODE. A SLEEVE AROUND THE PIPE SHALL BE INSTALLED FOR THE WALL PENETRATION.

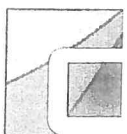
CLEANOUTS SHALL BE PROVIDED AT ALL HORIZONTAL/VERTICAL PIPE BENDS, AND AT A MAXIMUM SPACING OF 75' ON ALL STRAIGHT RUNS, UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE MAXIMUM PIPE BEND ALLOWED SHALL BE 45°. NO 90° ELBOWS SHALL BE PERMITTED.

EXISTING SEPTIC TANK (AS WELL AS ANY OTHER SEEPAGE PITS/DRYWELLS, ETC.) TO BE ABANDONED IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING PUMPING OUT AND BREAKOUT OUT OF BOTTOM.

THE NEW PVC LATERAL SHALL BE CONNECTED TO EXISTING HOUSE SOIL LINE WITH A "PROFLEX" SERIES 3000 COUPLING AS MANUFACTURED BY FERNCO, OR OTHER APPROVED FITTING. USE CONCRETE AROUND THE FERNCO FOR SUPPORT. CONNECTION SHALL BE MADE APPROXIMATELY 5' FROM THE OUTSIDE EDGE OF THE HOUSE. THE EXISTING PIPE CONNECTION TO THE SEPTIC TANK SHALL BE EXCAVATED AND REMOVED.

SEWER PLAN VIEW

FIGURE 8



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TYPICAL LATERAL PLAN

STANDARD SANITARY SEWER DETAILS

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